

INFORMATION DISCLOSURE CITATION	ATTY. DOCKET NO. 2752-31 APPLICANT Maertens et al	SERIAL NO. 08/836,075
(Use several sheets if necessary)	FILING DATE April 21, 1997	GROUP 1643

COPY

X 30

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MKB	5,372,928	12/1994	Miyamura et al			
MKB	5,514,539	5/1996	Bukh et al			

FOREIGN PATENT DOCUMENTS

DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
0 532 187	1/1993	EP			
WO 96/01442	1/1995	PCT			
MKB WO 93/10239	5/1993	PCT			
WO 93/06126	4/1993	PCT			
419182 A1	3/1991	EP			
MKB WO 92/19743	11/1992	PCT			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

MKB	Bukh, J. et al, "At least 12 genotypes of hepatitis C virus predicted by sequence analysis of the putative E1 gene of isolates collected worldwide". Proceedings of the National Academy of Sciences of USA, Vol. 90, pages 8234-8238.		
	Bukh, J. et al, "Sequence analysis of the core gene of the 14 hepatitis C virus genotypes", Proceedings of the National Academy of Sciences of USA, Vol. 91, pages 8239-8424.		
	Enomoto, N., et al "There are two major types of hepatitis C virus in Japan". Biochem. Biophys. Res. Commun., Vol. 170, No. 3, 1990, pages 1021-1025. XPO02017445		
	Diesel, G. et al, "Hepatitis C virus (HCV) genotype distribution in German isolates: studies on the sequence variability in the E2 and NS5 region". Archives of Virology, Vol. 139, No. 3/04, pages 379-388.		
	Tokita, H. et al, "Hepatitis C virus variants from Vietnam are classifiable into the seventh, eighth and ninth major genetic groups". Proceedings of the National Academy of Sciences of USA, Vol. 91, No. 23, pages 11022-11026.		
	Stuyver et al, "Hepatitis C virus genotyping by means of 5'-UTR/core line probe assays and molecular analysis of untypeable samples". Virus Research, Vol. 30, No. 2-3, pages 137-157.		
	Simmonds, P. et al, "Mapping of serotype-specific immunodominant epitopes in the NS4 region of hepatitis C virus". J. Clin. Micro., Vol. 31, No. 6, 1993, pages 1493-1503.		
	Stuyver, L. et al, "Analysis of the putative E1 envelope and NS4a epitope regions of HCV type 3". Biochem. Biophys. Res. Commun., Vol. 192, No. 2, 1993, pages 635-641.		
	Chayama, K. et al, "Genotypic subtyping of hepatitis C virus", J. Gastroenterol. Hepatol., Vol. 8, 1993, pages 150-156.		
	Weiner et al, "Variable and hypervariable regions are found in the regions of HCV corresponding to the flavivirus envelope and NS1 proteins". Virology, Vol. 180, 1991, pages 842-848.		
	Bukh et al, PNAS 89 4942-4946, June 1992		
	Wallace et al, "Methods in Enzymology", 152:432 (1987).		
✓	Cha, T.A. et al, "At least five related but distinct genotypes of hepatitis C virus exist", Proc. Natl. Acad. Sci. USA, Vol. 89, 1992, pages 7144-7148.		
Examiner	MKB	Date Considered	10/1/03

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 509. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTC-FS-4820 (Also PTC-1449)

FROM NIXON VANDERHVE PC

(MON) 3.18'02 14:11/ST:14:00/NO. 4860565253 P 41

INFORMATION DISCLOSURE
CITATION

Atty. Docket No.

Serial No.

2752-31

08/836,075

Applicant

Maertens et al

COPY

Filing Date

Group

April 21, 1997

1643

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, etc.)

<i>MVB</i>	Mori, S. et al, "A new type of hepatitis C in patients in Thailand", Biochem. Biophys. Res. Commun., Vol. 183, No. 1, 1992, pages 334-342.		
<i>MVB</i>	Chan, S.W. et al, "Analysis of a new hepatitis C type and its phylogenetic relationship to existing variants", J. Gen. Virol., Vol. 73, 1992, pages 1131-1141.		
<i>MVB</i>	Chen et al, Virology 188, 102-113 (1992)		
<i>MVB</i>	George et al, "Macromolecular Sequencing and Synthesis, Selected Methods and Applications", pages 127-149, 1988 Alan R. Liss, Inc.		
<i>MVB</i>	Innis et al, "PCR Profocos. A Guide to Methods and Applications", 1990 Academic Press, 11 th -12.		
<i>MVB</i>	Van Doorn et al, "Sequence analysis of hepatitis C virus genotypes 1 to 5", Embl/Genbank/DBJ database entry HC3NL96 Accession no. X78863.		
<i>MVB</i>	Hotta et al, "Subtype analysis of hepatitis C virus in Indonesia", DBJ database entry HPCN S5P5 Accession no. D26387.		
<i>MVB</i>	Kato, N. et al, "Molecular cloning of the human hepatitis C virus genome from Japanese patients with non-A non-B hepatitis", Proc. Natl. Acad. Sci. USA, Vol. 87, 1990, pages 9254-9528. DUPLICATE		
Examiner	<i>MVB</i>	Date Considered	10/1/01

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)

ATTY. DOCKET NO.
2551-105
APPLICANT

08/836,075

(Use several sheets if necessary)

Maertens et al

FLIGHT DATE

GROUPS

April 21, 1997

1631

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

Apichartpiyakul et al., Journal of Clinical Microbiology, September 1994, pp 2276-2279, vol. 32, No. 9

* Examiner

Date Considered

3/2/06

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-FB-A820 (Also PTO-1449)

INFORMATION DISCLOSURE CITATION

ATTY. DOCKET NO.

2551-105

SERIAL NO.

08/836,075

APPLICANT

Maertens et al

FILING DATE

April 21, 1997

GROUP

1631

U.S. PATENT DOCUMENTS

***EXAMINER**

INITIAL

DOCUMENT NUMBER

DATE _____

NAME

CLASS

SUBCLASS

**FILING DATE
IF APPROPRIATE**

FOREIGN PATENT DOCUMENTS

TRANSLATION

DOCUMENT

DATE _____

COUNTRY

CLASS

SUBCLASS

YES

NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

Choo et al. PNAS 1991 88, 2451-2455

Genbank Accession no. M62321. Hepatitis C virus...[gi:329873] Hepatitis C virus polyprotein precursor (HCV-1) mRNA, complete cds; VRL 02-AUG-1993 Choo,Q.-L., Richman,K., Han,J.H., Berger,K., Lee,C., Dong,C., Gallegos,C., Coit,D., Medina-Selby,A., Barr,P.J., Weiner,A., Bradley,D.W., Kuo,G. and Houghton,M. :Genetic organization and diversity of the hepatitis C virus, Proc. Natl. Acad. Sci. U.S.A. 88 (6), 2451-2455 (1991)

*Examiner

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)

Notice of References Cited

Application No.
08/836,075

Applicant(s)
Maertens et al.

Examiner
Mary K Zeman

Group Art Unit
1815

Page 1 of 2

U.S. PATENT DOCUMENTS

*		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS
	A					
	B					
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUBCLASS
x	N	93-00385	1/7/93	WO	Chien	----	----
x	O	94-25801	11/10/94	WO		----	----
X	P	6-319563	11/22/94	JP	Okamoto	----	----
	Q						
	R						
	S						
	T						

NON-PATENT DOCUMENTS

*		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
x	U	Liu et al. 1992 Gene 114 (2) 245-250	1/92
x	V	Stuyver et al. 194 Journal of General Virology 74 (6) 1093-1102	1/94
x	W	Stuyver et al. 1994 PNAS USA 91 (21) 10134-10138	1/94
x	X	van Doorn et al, 1994 Journal of Hepatology 21 (1) 122-129	1/94

* A copy of this reference is not being furnished with this Office action.
(See Manual of Patent Examining Procedure, Section 707.05(a).)

Notice of References CitedApplication No.
08/836,075Applicant(s)
Maertens et al.Examiner
Mary K ZemanGroup Art Unit
1815

Page 2 of 2

U.S. PATENT DOCUMENTS

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS
A					
B					
C					
D					
E					
F					
G					
H					
I					
J					
K					
L					
M					

FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUBCLASS
N						
O						
P						
Q						
R						
S						
T						

NON-PATENT DOCUMENTS

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
X U	Qu et al. 1994 Journal of General Virology 75 (5) 1083-1070	5/94
V		
W		
X		